

**From:** Separation Science <elearning.solutions@sepscience.com>  
**Sent:** Tuesday, December 04, 2012 1:34 PM  
**To:** Hanchett, James (DPH)  
**Subject:** Thermo Scientific Applications Update



#### APPLICATIONS UPDATE



##### **Analysis of Catechins Using a Thermo Scientific™ Accucore™ XL C8 4 μm HPLC Column**

This application note compares the performance of a solid core Accucore XL C8 4 μm HPLC column with that of a fully porous 5 μm traditional HPLC column for the analysis of catechins under gradient mobile phase conditions.

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##### **LC-MS/MS Method for the Determination of Testosterone using a Thermo Scientific™ Accucore™ C8 HPLC Column**

A liquid chromatography-tandem mass spectrometry method for the analysis of testosterone was carried out on an Accucore C8 HPLC Column (2.6 μm 50 x 2.1 mm) resulting in a fast separation with a cycle time of 1.5 minutes while maintaining excellent peak shape.

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##### **Analysis of Intact Proteins on a Thermo Scientific™ Accucore™ 150-C4 150 Å Pore Diameter HPLC Column**

This application note demonstrates the analysis of intact proteins using an Accucore 150-C4 (150 Å pore diameter) HPLC column. The analysis of six proteins ranging in mass from 6 to 45 kDa is carried out in 15 minutes with pressures compatible with conventional HPLC instrumentation. Excellent loading capacity was observed for this column.

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##### **Analysis of Bovine Serum Albumin (BSA) Protein Digest on a Thermo Scientific™ Accucore™ 150-C18, 150 Å Pore Diameter NanoLC Column**

This application note demonstrates the analysis of trypsin-digested bovine serum albumin (BSA) using an Accucore 150-C18 (150 Å pore diameter) nanoLC column. The analysis was carried out using an acidified water: acetonitrile gradient over 30 minutes generating pressures compatible with conventional nanoLC instrumentation. The data demonstrates excellent peak shape and reproducibility.

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##### **Analysis of Intact Proteins on a Thermo Scientific™ Accucore™ 150-C4 150 Å Pore Diameter NanoLC Column**

This application note demonstrates the analysis of proteins intact using an Accucore 150-C4 (150 Å pore diameter) nanoLC column. The analysis of five proteins (ranging in mass from 6 to 45 kDa) is carried out in 15 minutes with pressures compatible with conventional nanoLC instrumentation.

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##### **Analysis of Bovine Serum Albumin (BSA) Protein Digest on a Thermo Scientific™ Accucore™ 150-C18, 150 Å Pore Diameter NanoLC Column**

This application note demonstrates the analysis of trypsin-digested bovine serum albumin (BSA) using an Accucore 150-C18 (150 Å pore diameter) nanoLC column. The analysis was carried out using an acidified water: acetonitrile gradient over 30 minutes generating pressures compatible with conventional nanoLC instrumentation. The data demonstrates excellent peak shape and reproducibility.

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##### **Analysis of Endocrine Disruptors Using a Thermo Scientific™ Accucore™ XL C8 4 μm HPLC Column**

This application note compares the performance of the solid core Accucore XL C8 4 μm HPLC column with that of a fully porous 5 μm traditional HPLC column for the analysis of endocrine disruptors under gradient mobile phase conditions.

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##### **Analysis of Fat Soluble Vitamins Using a Thermo Scientific™ Accucore™ XL C18 4 μm HPLC Column**

Based on Core Enhanced Technology™ using 4 μm solid core particles, Accucore XL HPLC columns allow users of conventional HPLC methods to enjoy performance far beyond that of columns packed with 5 μm or even 3 μm fully porous particles. Very high separation efficiencies using standard HPLC instruments and conditions provide increased peak resolution and lower limits of detection. An ultra-stable packed bed results in exceptionally robust columns that demonstrate excellent retention and response reproducibility.

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##### **Analysis of Ibuprofen and Valerophenone Using a Thermo Scientific™ Accucore™ XL C18 4 μm HPLC Column**

This application note compares the performance of the solid core Accucore XL C18 4 μm HPLC column with that of a fully porous 5 μm traditional HPLC column for the analysis of ibuprofen and valerophenone using an isocratic method based on the USP.

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##### **Analysis of Triazines Using a Thermo Scientific™ Accucore™ XL C8 4 μm HPLC Column**

This application note compares the performance of the solid core Accucore XL C8 4 μm HPLC column with that of a fully porous 5 μm traditional HPLC column for the analysis of triazines under gradient mobile phase conditions.

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